

PATENT CLAIMS

What is claimed is:

- 5 1. An insulation structure for an internal insulation of a vehicle, for arrangement
in an intermediate space between an internal paneling of the vehicle and an
outside skin of the vehicle, the insulation structure comprising:
an insulation package (3);
wherein an insulation core (1) is embedded in the insulation package;
10 a film (11) of a burn-through safe film material;
wherein the film material is an obstruction to a fire (7) to which a film surface
region of this film (11) is subjected during a fire incident; and
wherein the insulation package (3) is essentially enveloped by the film (11).
- 15 2. The insulation structure of claim 1,
wherein the film (11) is implemented using a material of high and permanent
fire resistance, which is implemented as sufficiently resistant and/or
insensitive to occurring fire (7), because of which burning through of a film
wall due to the influence of the flaming fire (7) does not occur even in the
20 event of permanent effect on the film surface region, and propagation of the
fire (7) flaming against the film surface region is hindered or prevented.
- 25 3. The insulation structure of claim 1,
wherein on the external circumference of the film (11), there is a film-
reinforcement region (A).
- 30 4. The insulation structure of claim 3,
wherein the film reinforcement region is implemented by layering multiple
burn-through safe films (11, 11a, 11b), which are positioned lying one on top
of another.

5. The insulation structure of claim 1,
wherein a hose-like end section of the film (11) is formed at the end of the
film and outside its film envelope and on the edge of the insulation package
5 (3), which, assuming contact of the hose-like shaped film (11) walls which
are positioned diametrically opposite half of the hose circumference, is
shaped into an attachment section (50) of the film (11) having a flat design.
6. The insulation structure of claim 5,
10 wherein the attachment end section (50) of the film (11) is folded in a Z-
shape and the film fold regions (B11, C11, D11) of the attachment section
(50) of the film (11) obtained through the folding are laid one on top of
another.
- 15 7. The insulation structure of one of claims 1 and 4,
wherein the use of the burn-through safe films (11, 11a, 11b) as a fire
barricade or in correlation as a fire barrier is considered.
8. The insulation structure of claim 1,
20 wherein the film is implemented using a carrier film (11) onto which the
fibers of a fire barrier are applied.
9. The insulation structure of claim 8,
wherein the fibers of the fire barrier are implemented using ceramic fibers.
25
10. The insulation structure of claims 3 and 4 or 9,
wherein a film or a film reinforcement is formed from the ceramic fibers.